

NEW APPLICATION



John S. Hallkowski, Director

Dallas Hammit, State Engineer

Steve Boschen. Division Director

Arizona Corporation Commission

DOCKETED

JUN 17 2015

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June 17, 2015

Arizona Corporation Commission Office of Railroad Safety Attn: Chris Watson 1200 W Washington Street Phoenix, AZ 85007 AZ CORP COMMISSIO DOCKET CONTROL

RR-03639A-15-0200

DOCKETED BY

RE: APPLICATION TO INSTALL A NEW GRADE SEPARATED CROSSING AND REMOVE AN EXISTING PUBLIC AT-GRADE CROSSING

Project: RECONSTRUCT INA ROAD TRAFFIC INTERCHANGE

Location: Interstate 10 (MP 247.1 to MP 248.9) and Ina Road (City of Tucson & Pima County, Arizona)

Federal Project # NH -010-D (216) S ADOT Tracs # 010 PM 248 H847901D Remove crossing AAR/DOT # 741101G Install new overpass crossing

ORIGINAL

Mr. Watson,

This application is being submitted to allow the Arizona Department of Transportation (ADOT) to construct and maintain a new grade separated structure and to allow the Union Pacific Railroad (UPRR) to remove an existing at-grade public crossing in the Town of Marana, Arizona.

1. Project Location and Description

The new Ina Road traffic overpass will be located in approximately the same location as the existing Ina Road at-grade crossing, AAR/DOT #741101G. This overpass is part of the Interstate 10, Ina Road Traffic Interchange project for the Arizona Department of Transportation (ADOT). The entire project is located in Tucson, Arizona.

The project consists of reconstructing Interstate 10 (I-10) from 0.9 miles east (south) of Ina Road to 0.9 miles west (north) of Ina Road. As part of this project, I-10 will be lowered to ground level and widened to eight lanes of travel and Ina Road will be elevated over I-10, UPRR right-of-way, and Camino de Oeste, a local Town of Marana street. Ina Road will be reconstructed to a six-lane facility with turn lanes, bicycle lanes, and sidewalks. This configuration will allow for the removal of the existing at-grade crossing on Ina Road while maintaining access to/from I-10.

Additional improvements that will be completed as part of this project within Union Pacific Railroad include pier construction for the overpass bridge construction, drainage (storm drain) improvements, and utility relocations.

The existing at-grade crossing is under the jurisdiction of the Town of Marana, but will be transferred to ADOT in the near future. A Town resolution in support of removing the at-grade crossing will be obtained and included as part of the executed ADOT/UPRR Construction & Maintenance Agreement.

The entire project is anticipated to be advertised by the summer of 2016, with construction starting in the fall/winter of 2016. Construction is anticipated to take 24 months. Ina Road within the limits of the Union Pacific Railroad at-grade crossing and I-10 will be closed throughout the majority of construction timeframe. The at-grade crossing may be used by construction traffic until the new overpass is complete. To facilitate construction activities to either side of the at-grade crossing, ADOT is requesting that the UPRR be allowed a minimum of 36 months to remove the at-grade crossing after issuing the order.

The project website is: http://www.azdot.gov/projects/south-central/i-10-ina-road-ti-final-design

2. Why the crossing is needed

The Design Concept Report entitled was completed by the Arizona Department of Transportation in May 2012. The report identified a new grade-separated crossing for Ina Road at I-10 and Union Pacific Railroad for the need to "eliminate vehicle conflicts with the Union Pacific Railroad's east-west main line tracks."

The Design Concept Report can be accessed via the internet at: http://www.azdot.gov/docs/default-source/projects/design-concept-report.pdf?sfvrsn=0

3. Construction Phasing

Construction is expected to start by the winter of 2016. Ina Road will be closed to the general traffic for the majority of the construction. During project construction traffic may continue to use the at-grade crossing until the overpass is completed. Once the overpass is completed and in service, the at-grade crossing can be removed. Our contractor will coordinate and receive approval from the Union Pacific Railroad to use the crossing during construction.

4. Maintenance of the grade separated overpass

ADOT will be responsible for constructing and maintaining the Ina Road Overpass over the Union Pacific Railroad right-of-way. Union Pacific Railroad will be responsible for removing the at-grade crossing and maintaining their infrastructure.

5. Project Funding

The project is funded by the Federal Highway Administration, the City of Tucson, the City of Marana, Pima Association of Governments and Arizona Department of Transportation.

This project will be advertised in the summer of 2016 and is estimated to cost approximately \$120M with the Ina Road overpass over the Union Pacific Railroad estimated to cost \$7.4M. This cost does not include the interchange between Prince Road and Interstate 10.

The Union Pacific Railroad contribution to the project has not been finalized. The costs for the relocation of railroad signal lines and the removal of the Ina Road at-grade railroad crossing will be the responsibility of Union Pacific Railroad.

6. Other information (based on typical Staff Data Requests):

- CW1-1 2009 ADT for Ina Road West of I-10: 15,100vpd; East of I-10: 31,700vpd
- CW1-2 2009 Intersection LOS (EB/WB): Ina Road/West Frontage Road E/B; Ina Road/East Frontage Road A/C

- CW1-3 Past Traffic Studies: A corridor study for improving I-10 from Tangerine Road to I19 was completed in 1997. Design Concept Report for Ina Road Traffic
 Interchange was completed in May 2012. Copy of the Design Concept Report is
 available on ADOT website.
- CW1-4 Population: 2009 estimated population of Tucson is 543,910 persons
- CW1-5 Existing Railroad Safety Devices: Ina Road at-grade crossing is currently protected by cantilevered flashing lights and gates for both directions of travel on Ina Road and the right turn lane from westbound I-10 Frontage Road.
- CW1-6 Adjacent Public Crossings: The nearest public crossings of the Union Pacific Railroad are as follows: (1) Massingale Road (DOT #741100A); 0.6 miles to the northwest of Ina Road and is at-grade; (2) Orange Grove Road (DOT #748175X), 1.3 miles to the southeast of Ina Road and is grade separated; (3) Cortaro Road (DOT # 741098B), 2.0 miles to the northwest of Ina Road and is at-grade.
- CW1-7 Grade Separation Study: Design Concept Report entitled <u>Ina Road Traffic</u>
 <u>Interchange to Ruthrauff Road Traffic Interchange</u> (dated May 2012) identified grade-separation of Ina Road and Union Pacific Railroad.
- CW1-8 Grade Separation Cost: Cost of Entire project provided above.
- CW1-9 Surrounding Zoning: Surrounding area is zoned for Light Industrial and Village Commercial (source: Pima County)
- CW1-10 Existing Train Movements: Per FRA website based on 1994 information, 25 freight and 2 passenger trains per day. UPRR expects 84 trains per day by 2016. All train movements are thru movements.
- CW1-11 Nearest Schools: (1) Charter School PPEP Tec, John David Arnold Learning Center: 0.7 miles east of crossing (4140 West Ina Road); (2) Marana Unified School District Thornydale Elementary School: 0.8 miles northeast of crossing (7651 North Old father Drive); (3) Marana Unified School District Coyote Trail Elementary School: 2.8 miles northwest of crossing (8000 North Silverbell Road; (4) Flowing Wells Unified School District Richardson Elementary School: 1.6 miles southeast of crossing (6901 North Camino de la Tierra)
- CW1-12 Nearest Hospitals: (1) Northwest Hospital: 3.2 miles from crossing (6200 North LaCholla Blvd) (1) Tucson Heart Hospital: 6.8 miles southeast of this crossing (4888 N Stone); (3) St. Mary Hospital: 8.5 miles south of this crossing (1601 St. Mary Road)
- CW1-13 Railroad Costs: To be determined
- CW1-14 Hazardous Materials traffic: It is not known how much hazardous materials traffic uses the existing crossing each day.

- CW1-15 Speed Limit: Ina Road has a posted speed limit of 45 mph.
- CW1-16 Other bus use: Unknown.
- CW1-17 Abandoned Railroad Spurs: Unknown if railroad spurs have been removed within a 10 mile radius.
- CW1-18 Summary of FHWA grade separation guidelines: Does not apply. This crossing will be grade separated.
- CW1-19 Expected traffic delay due to train traffic: Does not apply. This crossing will be grade separated.

Sincerely,

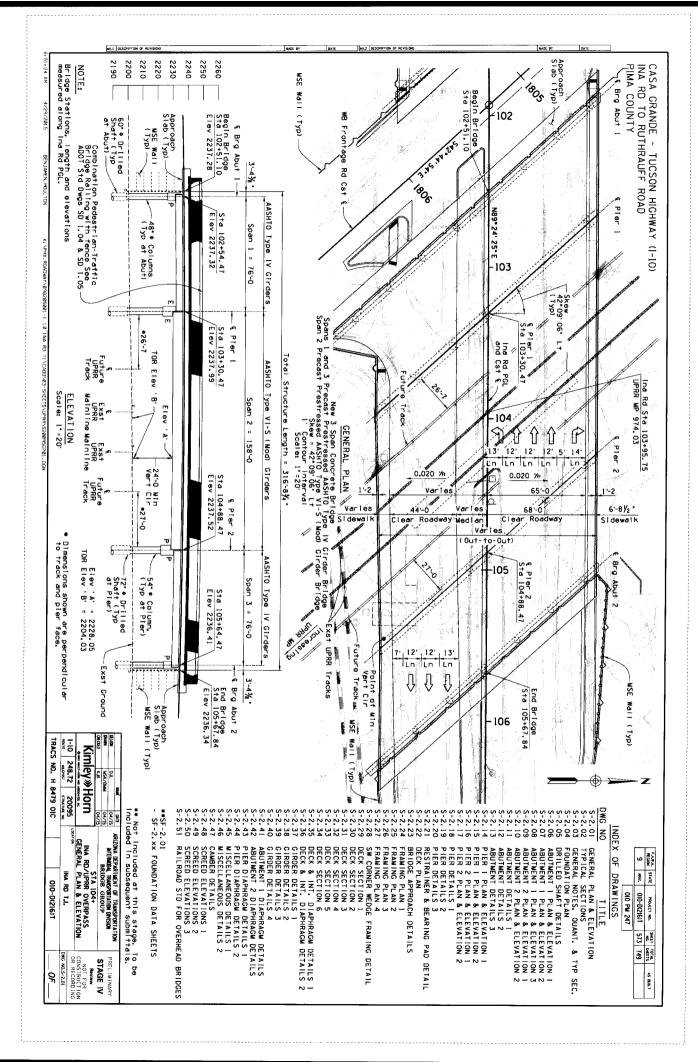
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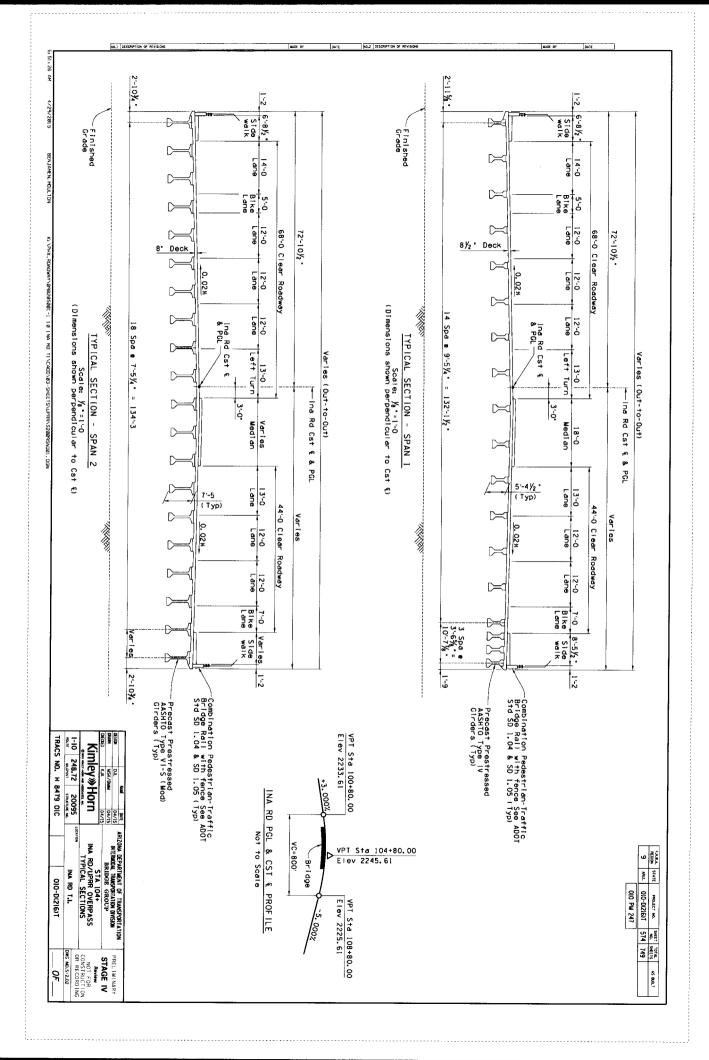
Utility Engineering Coordinator/ Railroad Liaison

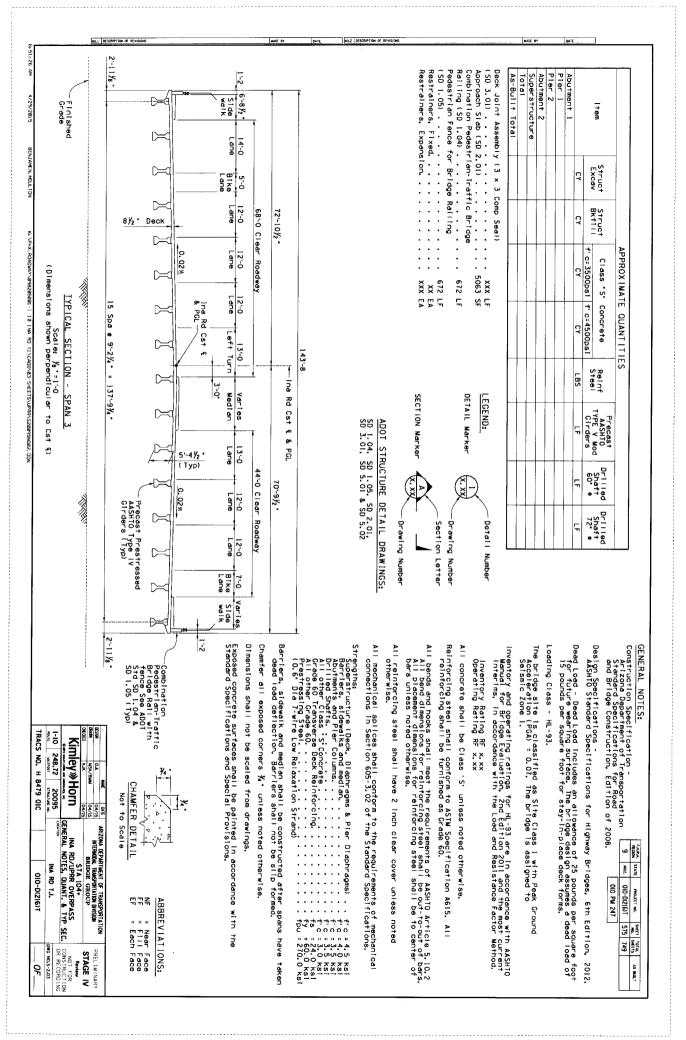
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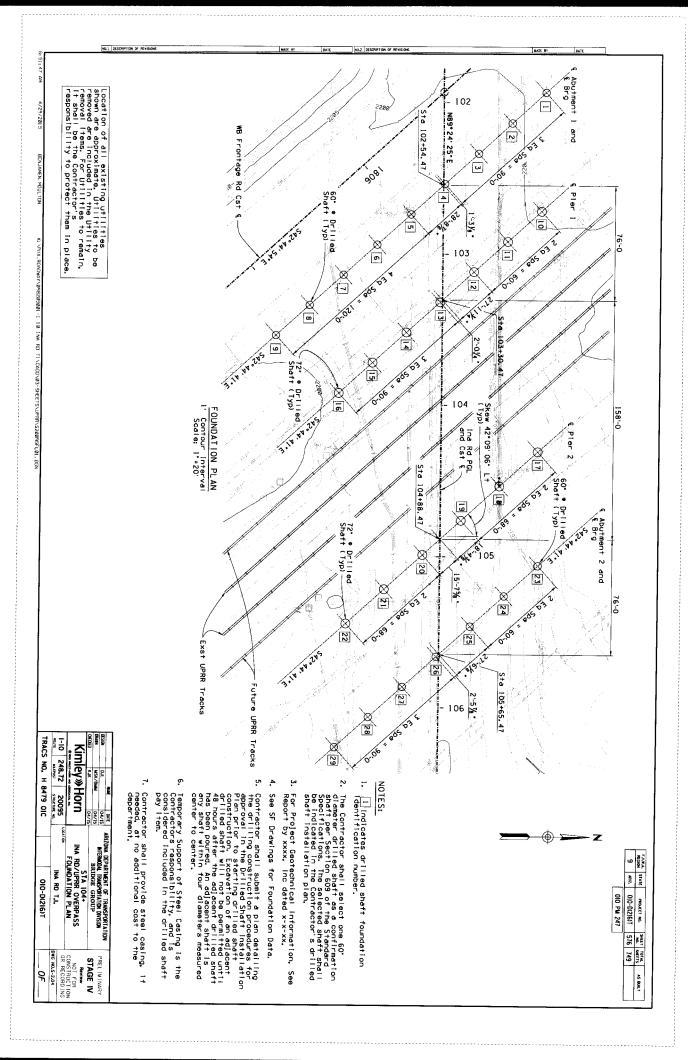
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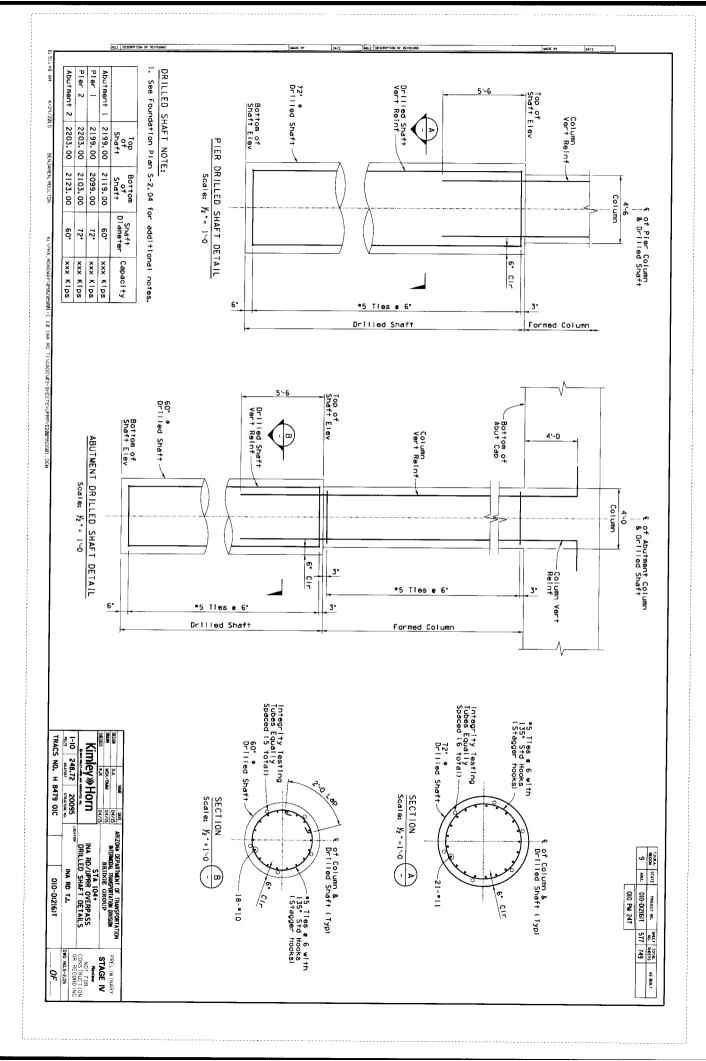


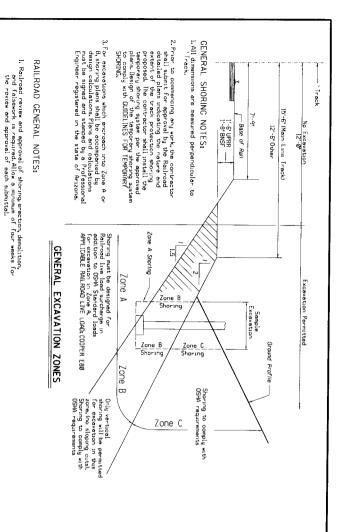












EXST EAST TRACK TOP OF RAIL ELEVATIONS

EXST_WEST_TRACK_TOP OF RAIL_ELEVATIONS (STATIONS INCREASE WITH MILEPOST INCREASE)

ALIGNMENT: LEFT RAIL

ALIGNMENT: RIGHT RAIL STATION

ELEVATION

2200.63

ELEVATION

14+00	13+00	12+00	11+00	10+00	9+00	8+00	7+00	6+00	5+00	4+90	STATION	ALIGNMENT: LEFT RAIL		SNULLETS
2206.32	2205.67	2205.06	2204.39	2203.85	2203.00	2202.49	2201.91	2201.29	2200.74	2200.20	ELEVATION	EFT RAIL	MAIN LINE	ISTALLUNS INCREASE WITH MILEPOST
14+00	13+00	12+00	11+88	(I) 100+000	9+80	8+00	7+00	6+00	5+00	4+00	STATION	ALIGNMENT: RIGHT RAIL	LINE	H MILEPOST IN
2206.29	2205.64	2205.03	2204.39	2203.85	2203.01	2202.46	2201.88	2201.27	2200.70	2200.15	ELEVATION	RIGHT RAIL		INCREASE)

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	MAIN LINE	LINE	
ALIGNMENT: LEFT RAIL	LEFT RAIL	ALIGNMENT: RIGHT RAIL	NICHT RAIL
STATION	ELEVATION	STATION	ELEVATION
4+90	2200.20	4+00	2200.15
5+00	2200.74	5+00	2200.70
6+00	2201.29	6+00	2201.27
7+00	2201.91	7+00	2201.88
8+00	2202.49	8+00	2202.46
9+00	2203.00	9+80	2203.01
10+00	2203.85	(I) 100+000	2203.85
11+00	2204.39	11+00	2204.39
12+00	2205.06	12+00	2205.03
13+00	2205.67	13+00	2205.64
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2201.25 2200.66 2200.05

11+00 9+00 8+00 7+00 6+00 5+00 4+00

2204.41

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12+00 11+00

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- 1. Center-line of bridge and/or centerline of project.
 2. Track layout and limits of failload right-of-way with respect to centerline of main lines.
 3. Future tracks access roadways and existing tracks as main line, siding.
- 4. Point of minimum vertical clearance and distance, measured perpendicular, from the centerline of nearest track.

 Shorizontal clearance at right ongle from centerline of nearest existing or future track to the face of observations and has substructure above growther track to the face of nearest foundation below grode. Horizontal clearance at right ongle from centerline of nearest existing or future track to the face of nearest foundation below grode. Horizontal spacing at right orgic between centerlines of existing and/or future tracks.

 8. Limits of shoring and minimum distance at right angle from centerline of nearest track. grade.
- or times of shorting and minimum distance of right angle from centerline of 9 mercest track.

 9. Present track.

 10. File existing facilities and utilities and their proposed relocation, if required.

 11. Five of slope and/or limits of retaining wall.

 12. Existing and proposed contours.

 13. Direction of flow for all denotes on financesing Milepost.

 13. Direction of flow for all denotes systems within project limits.

 14. Limits of borner and and ferce with respect to centerline of track.

 15. Depth of foundation below bottom of its.

 16. Top and bottom of pare protection will elevation relative to tap of rail elevation.

 17. Controlling dimensions of dealiness end/or dealiness structures.

 18. Top of real elevations for all tracks.

 19. Minimum permanent vertical clearance above top of high reil to the lowest point under the bridge.

 20. Existing and prepased groundline & roadway profile.

 21. Location of deck drains.

 23. Total width of shaperstructure.

 24. Midth of shoulder and/or sidewalk.

All construction phasing that may impact the Railroad operations shall be designed to cause no interruption to the Railroad's operation, enabling the track(s) to remain open to traffic per the Railroad's requirements.

All demolitions within the Reilroad's rightrof-way and/or demolition that may impact the Hailroad's tracks or operations shall be in compliance with the Reilroad's Demolition Guidelines.

Fraction over the Balirood's right-of-ray shall be designed to cause no interruption to the Ralirood's operation, enabling the track(s) to remain open to traffic per the Ralirood's

All shoring systems that impact the Railroad's operations and/or supports the Railroad's embankment shall be designed and constructed per current Railroad Guidelines for Temporary

. The contractor must submit a proposed method of erosion and sediment control and have the method approved by the Railroad

3. The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Mailroad prior to

The proposed grade separation project shall not increase the quantity and/or characteristics of the flow in the Railroad's ditches and/or drainage structures.

NO CONSTRUCTION ACTIVITIES OR OTHER OBSTRUCTIONS SHALL BE PLACED WITHIN THESE LIMITS RAIL OF

MINIMUM CONSTRUCTION CLEARANCE ENVELOPE

• 15'-0' for BNSF and 12'-0' for UPRR (NORMAL TO RAILROAD)

TYPICAL FENCE ON BARRIER DETAIL
RETER TO SHEET S-282 FOR GONERAL INFORMATION
AND AGOT STO SO 1.94 AND \$51.05 FOR
TYPICAL FENCE ON BARRIER DETAILS

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II. For Reulroad coordination Requirements as part of

refer to the Railroad Coordination

 All permanent clearances shall be verified before project closing. False-work clearances shall comply with minimum construction clearances.